EG&G ROCKY FLATS

INTEROFFICE CORRESPONDENCE

DATE: November 8, 1993

TO: D. L. Schubbe, Remediations Projects Mgmt., Bldg. 080, X8709

M.D.S.

FROM: M. D. Schreckengast, Industrial Hygiene, Bldg. T452G, X6790

SUBJECT: BERYLLIUM SAMPLES, BUILDING 883, ROOM 104, INDIVIDUAL HAZARDOUS SUBSTANCE SITE (IHSS) 180 - MDS-016-93

On August 25, 1993, breathing zone samples for beryllium were collected during Operable Unit (OU) 15 project operations. Four individuals were monitored for approximately one hour during development of the grid system at IHSS 180, Building 883, Room 104.

Beryllium air samples were collected onto mixed cellulose ester fiber (MCEF) filters, using air pumps. The filters were sent to Pace, Inc. Laboratory and analyzed via inductively coupled argon plasma (ICP), atomic emission spectroscopy (AES), per National Institute for Occupational Safety and Health (NIOSH) method number 7300. Pace, Inc. is fully accredited by the American Industrial Hygiene Association (AIHA). See Attachment 1 for laboratory report.

Sample results were compared to the Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL). The OSHA PEL is a time weighted average (TWA) airborne concentration during an eight-hour workday or a 40-hour work week to which nearly all workers may be exposed, day after day, without adverse health effects. The OSHA PEL for beryllium is 0.002 milligrams per cubic meter (mg/m^3) and the action level is 0.0005 mg/m^3.

Sample results were as follows:

OPERATION	8-HOUR TWA (mg/m^3)
Grid system development, recordkeeping	<0.00002
Grid system development	<0.00003
Grid system development	<0.00002
Operations oversight	<0.00002

The breathing zone air concentrations previously listed were well below the OSHA action level and are not expected to pose a health hazard to the individuals sampled. Employees will be notified as to their beryllium air sample results.

If you have any questions or concerns, please call me at Extension 6790.

pkd

Attachment:
As Stated

cc:
K. D. Anderson
J. M. Brooks
B. M. Clausen
L. A. Holwager
J. G. Kroll
L. A. Nelowet

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY

PACE Project Number : D30827.303
Service Order Number: 0000-1571
Report Date: September 15, 1993

To: EG&G Rocky Flats, Inc.
P.O. Box 464, T452G
Golden, CO 80402-0464

Attn: Mr. Scott Nickerson

Client Reference: Schreckengast/161

Method(s): NIOSH 7300

Results: The results for requested analyses are found in the following tables.

Discussion: The results contained in this report are expressed in terms of the concentration per sample volume and are computed based upon data provided by the client. These values are not necessarily comparable to any specific permissible exposure limit (PEL), nor have they been corrected for variation in temperature, altitude or atmospheric pressure.

PACE, Inc. has been AIHA accredited since 1977.

Laboratory data are filed and available upon request.

If you have any questions, please contact us at (303) 278-3400.

Approved By: Scott A. Steiner

Scott A. Steiner
Industrial Hygiene
Department Manager

Enclosures
SAS:30418

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

EG&G Rocky Flats, Inc.
P.O. Box 464, T452G
Golden, CO 80402-0464

Client Account Number: 15893
Service Order #: 0000-1571
PACE Project ID: D30827.303

Attn:
Re: Schreckengast/161

Report Date : September 15, 199

Laboratory Sample # / Analyte	Client Sample #	Det.Lim.	Volume/Time Unit	Main	Backup	Total	Air Concentration ppm	mg/M3
65-521494.7	**883/93/08/25/64/01**		162.00 Liters					
beryllium (Be)		0.02	ug			LT 0.02		LT 0.0002
65-521495.0	**883/93/08/25/64/03**		128.00 Liters					
beryllium (Be)		0.02	ug			LT 0.02		LT 0.0002
65-521496.3	**883/93/08/25/64/05**		164.00 Liters					
beryllium (Be)		0.02	ug			LT 0.02		LT 0.0002
65-521497.6	**883/93/08/25/64/07**		163.00 Liters					
beryllium (Be)		0.02	ug			LT 0.02		LT 0.0002
65-521498.9	**883/93/08/25/64/09**							
beryllium (Be)		0.02	ug			LT 0.02		

5930 McIntyre Street
Golden, CO 80403
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